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Practitioner's Docket No. U013417-6

PATENT

09/880604

Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129." M.P.E.P. Section 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231

Optional Customer No. Bar Code



PATENT TRADEMARK OFFICE

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): YOSHIHIRO ISHIZAKI

WARNING:

37 C.F.R. Section 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by Section 1.63, except as provided for in Section 1.53(d)(4) and Section 1.63(d). If an oath or declaration as prescribed by Section 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to Section 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in Section 1.17(1) is filed supplying or changing the name or names of the inventor or inventors."

For (title): SHEET-TYPE REGENERATIVE HEAT EXCHANGER AND MANUFACTURING METHOD THEREOF, AND REGENERATOR AND REFRIGERATOR USING THE SAME

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.)
(Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>June 13, 2001</u>, in an envelope as "Express Mail Post Office to Addressee", mailing Label Number <u>EL728213407US</u>, addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

MARIA MELIAN

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a data of mailing on transmission for this government data.

to obtain a date of mailing or transmission for this correspondence.

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal--page 1 of 12) 4-1

1. Type of Application

This new application is for a(n)

(check one applicable item below)

[x] [] []		Original (nonprovisional) Design Plant				
WARNING:		Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.				
WARNI	NG:	Do not use this transmittal for the filing of a provisional application.				
TRANS		the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION MITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN FAPPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.				
	[]	Divisional. Continuation. Continuation-in-part (C-I-P).				

2. Benefit of Prior U.S. Application(s) (35 U.S.C. Sections 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. Section 112. Each prior application must also be:

- (I) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in Section 1.51(b); or
- (iii) Entitled to a filing date as set forth in Section 1.53(b) or Section 1.53(d) and include the basic filing fee set forth in Section 1.16; or
- (iv) Entitled to a filing date as set forth in Section 1.53(b) and have paid therein the processing and retention fee set forth in Section 1.21(l) within the time period set forth in Section 1.53(f).

37 C.F.R. Section 1.78(a)(1).

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-1-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:

When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. Section 1.78(a)(3).

[] The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A. Required for Filing Date under 37 C.F.R. Section 1.53(b) (Regular) or 37 C.F.R. Section 1.153 (Design) Application

25 Pages of Specification7 Pages of Claims10 Sheets of Drawing

WARNING:

DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to Section 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988. (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page. . . "37 C.F.R. Section 1.84(c)).

(complete the following, if applicable)

[]	The enclosed drawing(s) are in color, and there is also attached a "PETITION TO ACCEPT COLOR DRAWING(S)." 37 C.F.R. Section 1.84(b).
[x]	Formal
[]	Informal

	В.	Other Papers Enclosed 8 Pages of declaration and power of attorney 1 Pages of Abstract Other
4.	Addi	tional Papers Enclosed
	[]	Amendment to claims
		 [] Cancel in this application claims before calculating the filing fee. [] Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
	[]	Preliminary Amendment
	[]	Information Disclosure Statement (37 C.F.R. Section 1.98)
	[]	Form PTO-1449 (PTO/SB/08A and 08B)
	[]	Citations Declaration of Biological Deposit
	[]	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
	[]	Authorization of Attorney(s) to Accept and Follow Instructions from Representative
	[]	Special Comments
	L j	Other

5. Declaration or Oath (including power of attorney)

NOTE: A newly executed declaration is not required in a continuation or divisional application provided the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under Section 1.47 then a copy of that declaration must be filed accompanied by a copy of the decision granting Section 1.47 status or, if a nonsigning person under Section 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. Section 1.63(d)(1)-(3).

NOTE: A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and the residence, post office address and country of citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. Section 1.63(a)(1)-(4).

NOTE: A The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by Section 1.62, except as provided for in Section 1.53(d)(4) and Section 1.63(d). If an oath or declaration as prescribed by Section 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to Section 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in Section 1.17(I) is filed supplying or changing the name or names of the inventor or inventors. 37 C.F.R. Section 1.41(a)(1).

The

	[x]	Enclose	ed			
		Executed by				
				(check all applicable boxes)		
·		[x] [] []	joint in	pr(s). epresentative of inventor(s). 37 C.F.R. Section 1.42 or 1.43. ventor or person showing a proprietary interest on behalf of inventor fused to sign or cannot be reached.		
			[]	This is the petition required by 37 C.F.R. Section 1.47 and the statement required by 37 C.F.R. Section 1.47 is also attached. See item 13 below for fee.		
	[]	Not End	closed.			
NOTE:	applicati a contini	on contain uation or c	is subject continuatio	ion in the U.S. of an International Application, or where the completion of the U.S. matter in addition to the International Application, the application may be treated a por-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION NEFIT OF PRIOR U.S. APPLICATION CLAIMED.		
		[]		ation is made by a person authorized under 37 C.F.R. 1.41 on behalf ne above named inventor(s).		
(The decl	aration o	or oath,	along with the surcharge required by 37 C.F.R. Section 1.16(e), can be filed subsequently).		
•			[]	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. Section 1.41(d))		
6.	Invente	orship S	tatemei	nt		
WARNI	VG:			tors are each not the inventors of all the claims an explanation, including the arious claims at the time the last claimed invention was made, should be submitted.		
The inv	entorshi	ip for all	the clai	ms in this application are:		
	[]	The san	ne.	or		
	[]	time the	last cla	An explanation, including the ownership of the various claims at the immed invention was made, atted.		

,.	Danguage				
NOTE:	An application including a signed oath or declaration may be filed in a language other than English. An Englis translation of the non-English language application and the processing fee of \$130.00 required by 37 C.F.R. Section 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. Section 1.52(d).				
		glish n-English			
	[]	The attached translation includes a statement that the transl 37 C.F.R. Section 1.52(d).	ation is accurate		
8.	Assignmen	t and			
U	[x] An <u>PO</u>	assignment of the invention to ECTI FUKUDA METAL FOIL DWDER CO., LTD	<u>&</u> —		
	[]	is attached. A separate [] "COVER SHEET FOR ASSIGN MENT) ACCOMPANYING NEW PATENT APPLICATION FORM PTO 1595 is also attached.			
	[]	will follow. has been recorded at Reel, Frame on			
Nome					
NOTE:	"If an assignm for the assignm	nent is submitted with a new application, send two separate letters-one for the a ment" Notice of May 4, 1990 (1114 O.G. 77-78).	application and one		
WARNI		ewly executed "STATEMENT UNDER 37 C.F.R. Section 3.73(b)" must be filed art application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-			
9.	Certified C	Сору			
	Certified co	ppy(ies) of application(s)			
	JAPAN	2001-98155 30 N	MARCH 2001		
	Country	Appln. no.	Filed		
	Country	Appln. no.	Filed		
	Country	Appln. no.	Filed		
from w	which priority [x] is (a	is claimed are) attached.			
		l follow.			
·		s filed in parent application			
NOTE:		oplication forming the basis for the claim for priority must be referred to in the tion 1.55(a) and 1.63.	oath or declaration		
NOTE:	application or entitled to prio	r any foreign priority for which the application being filed directly relates. If a International Application from which this application claims benefit under 35 ority from a prior foreign application, then complete item 18 on the ADDED P. N TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLA	U.S.C. 120 is itself AGES FOR NEW		

10. Fee Calculation (37 C.F.R. Section 1.16)

A. [x] Regular application

CLAIMS AS FILED						
Claims		Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. Section 1.10 \$710.00
Total C (37 C.F 1.16(c)	R. Section	15	- 20=	x	\$ 18.00	
	ndent Claim F.R. Section		- 3 =	х	\$ 80.00	240.00
Claim(s	le Depender s), if any f.R. Section			+	\$270.00	
	[] Ar	nendment cancelli nendment deleting e for extra claims	g multiple-deper	ndencies is enclose	d.	
NOTE:	the expiration			must be paid or the cla Patent and Trademar		
			Fili	ng Fee Calculation	s	950.00
	B. []	Design appli 320.0037 C.F.R.	Section 1.16(f))) ng Fee Calculation	s	
	C. []	Plant applica 490.0037 C.F.R.	Section 1.16(g)) ng Fee Calculation	s	

11.

11.	Small	Entity Statement(s)					
	[]	Statement(s) that this is a filing by a small entity under 37 C.F.R. Section 1.9 and 1.27 is (are) attached.					
WARNING: WARNING:		"Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under Section 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under Section 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this Section." 37 C.F.R. Section 1.28(a)(2). "Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P. Section 509.03, 6th ed., rev. 2, July 1996					
		(emphasis added). (complete the following, if applicable)					
	[]	Status as a small entity was claimed in prior application, filed on from which benefit is being claimed for this application under:					
		35 U.S.C. Section [] 119(e) - provisional, [] 120 - continuation, [] 121 divisional, [] 365(c) - PCT,					
		and which status as a small entity is still proper and desired.					
		[] A copy of the statement in the prior application is included.					
		Filing Fee Calculation (50% of A , B or C above)					
NOTE:	2 month	ess of the full fee paid will be refunded if a small entity status is established refund request are filed within is of the date of timely payment of a full fee. The two-month period is not extendable under Section 1.136. 37 Section 1.28(a).					
12.	Reque	est for International-Type Search (37 C.F.R. Section 1.104(d))					
		(complete, if applicable)					
	[]	Please prepare an international-type search report for this application at the time when national examination on the merits takes place.					

Section 53(f).

Total Fees Enclosed

13.	Fee Payment Being Made at This Time					
	[]	Not Enclosed				
		[]	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. Section subsequently.)	n 1.16(e) can be paid		
	[x]	Enclos	eed			
		[x]	Filing fee	\$ 950.00		
		[]	Recording assignment (\$40.00; 37 C.F.R. Section 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.")	\$		
		[]	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. Sections 1.47 and 1.17(I))	\$		
		[]	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. Sections 1.52(d) and 1.17(k))	\$		
		[]	Processing and retention fee (\$130.00; 37 C.F.R. Sections 1.53(d) and 1.21(l))	\$		
		[]	Fee for international-type search report (\$40.00; 37 C.F.R. Section 1.21(e))	\$		
NOTE:	to comp 1.53 and	lete the app d 1.78(a)(1	. 1.21(1) establishes a fee for processing and retaining any application the blication pursuant to 37 C.F.R. Section 1.53(f) and this, as well as the club, indicate that in order to obtain the benefit of a prior U.S. application to processing and retention fee of Section 1.21(1) must be paid, within 1 y	hanges to 37 C.F.R. Section n, either the basic filing fee		

950.00

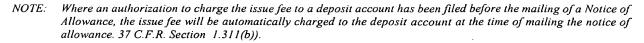
[x]

14.	Method of Payment of Fees					
	[x]	Check in the amount of \$950.00.				
	[]	Charge Account No in the amount of \$ A duplicate of this transmittal is attached.				
NOTE:	Fees sh 1.22(b).	hould be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. Section).				
15.	Autho	orization to Charge Additional Fees				
WARNI	NG:	If no fees are to be paid on filing, the following items should <u>not</u> be completed.				
WARNI	NG:	Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.				
	[x]	The Commissioner is hereby authorized to charge the following additional fees by the paper and during the entire pendency of this application to Account No. 12-0425				
		[x] 37 C.F.R. Section 1.16(a), (f) or (g) (filing fees)				
		[] 37 C.F.R. Section 1.16(b), (c) and (d) (presentation of extra claims)				
NOTE:	be paid in any n	e additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO totice of fee deficiency (37 C.F.R. Section 1.16(d)), it might be best not to authorize the PTO to charge tal claim fees, except possibly when dealing with amendments after final action.				
		[] 37 C.F.R. Section 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)				
		[] 37 C.F.R. Section 1.17(a)(1)-(5) (extension fees pursuant to Section 1.136(a).				

NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under Section 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in Section 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. Section 1.136(a)(3).

37 C.F.R. Section 1.17 (application processing fees)

[x] 37 C.F.R. Section 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. Section 1.311(b))



NOTE: 37 C.F.R. Section 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . issue fee." From the wording of 37 C.F.R. Section 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

16. Instructions as to Overpayment

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. Section 1.26(a).

[X] Credit Account No. 12-0425.

[] Refund

Reg. No. 25,858

Tel. No.: (212) 708-1930

Customer No.: 00140

SIGNATURE OF PRACTITIONER

WILLIAM R. EVANS

(type or print name of practitioner)

P.O. Address

c/o Ladas & Parry 26 West 61st Street New York, N.Y. 10023

[]	Incorporation by reference of added pages						
	applica divisio APPLI	(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)					
	[],	Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed					
		Number of pages added					
	[]	Plus Added Pages for Papers Referred to in Item 4 Above					
		Number of pages added					
	[]	Plus added pages deleting names of inventor(s) named on prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.					
		Number of pages added					
	[]	Plus "Assignment Cover Letter Accompanying New Application"					
		Number of pages added					
[]	Staten	Statement Where No Further Pages Added					
		(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)					
	X	This transmittal ends with this page.					